ABSTRACT OF THE DISCLOSURE

Methods, apparatus, and systems for sharing resources across a plurality of computing platforms. Firmware provided on each platform is loaded for operating system runtime availability. Shared resources are presented to operating systems running on the platforms as local resources, while in reality they are generally hosted by other platforms. An operating system resource access request is received by a requesting platform and rerouted to another platform that actually hosts a target resource used to service the resource access request. Global resource maps are employed to determine the appropriate host platforms. Communications between the platforms is enabled via an out-of-band (OOB) communication channel or network. A hidden execution mode is implemented to effectuate data rerouting via the OOB channel such that the method is performed in a manner that is transparent to operating systems running on the platforms. The shared resources include storage, input, and video devices. The method can be used to support shared KVM (keyboard, video and mouse) resources.